GURVICH, I. A.

Mazarov, I. N., Kuznetsova, A. I. & <u>Gurvich. I. 4.</u> - "Acetylene derivatives. 106. Investigation of heterocyclic compounds. X. Gondensation of vinylacetylene with tetrahydro- -thiopyrones. Synthesis of 4-vinyl-ethynyl-tetrahydrothic-pyran-4-ols." (p. 376)

SC: Journal Of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. 2

GURVICH, I. A.

"Synthesis and Conversion of Tetrahydro-gamma-thio-pyroned." Sub 17 Apr 51, Inst of Organic Chemistry, Acad Sci USSR. Cancle Change Sci p14

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

NAZAROV, I. N., GURVICH, I. A., KUZNETSOVA, A. I.

Thiopyrones

Acetylene derivatives. 141. Heterocyclic compounds. Part 17. Structure and formation mechanism of tetrahydro-thiopyrones. Reduction of tetrahydro-thiopyrones, according to Kizhner. Zhur. ob. khim., 22, no. 6, 1952.

.195**3,2** Uncl. 9. Monthly List of Russian Accessions, Library of Congress,

CIA-RDP86-00513R000617510019-1"

APPROVED FOR RELEASE: 08/10/2001

NAZAROV, I. N., GURVICH, I. A. KUENETSOVA, A. I.

Thiopyrones

Acetylene derivatives. 142. Heterocyclic compounds Fart 18. Diene synthesis from dioxides of substituted-thiopyrones. Zhur. ob. khim., 22, no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

GURVICH, I. A., KUZH TSOVA, A. NAZAROV, I. N.,

Thiochromanones

Acetylene drivatives. Part 143. Heterocyclic compounds. No. 19. Stereoisomerism of hydrogenated thiochromanones. Zhur. ob. khim. 22, no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, November, 1952. Unclassified.

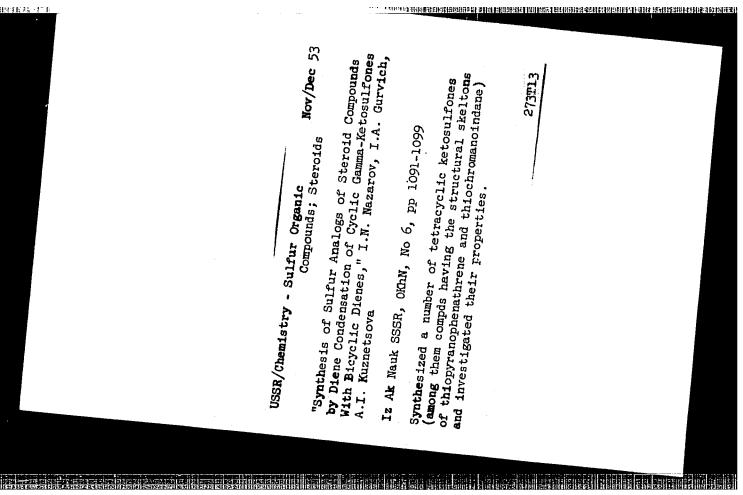
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

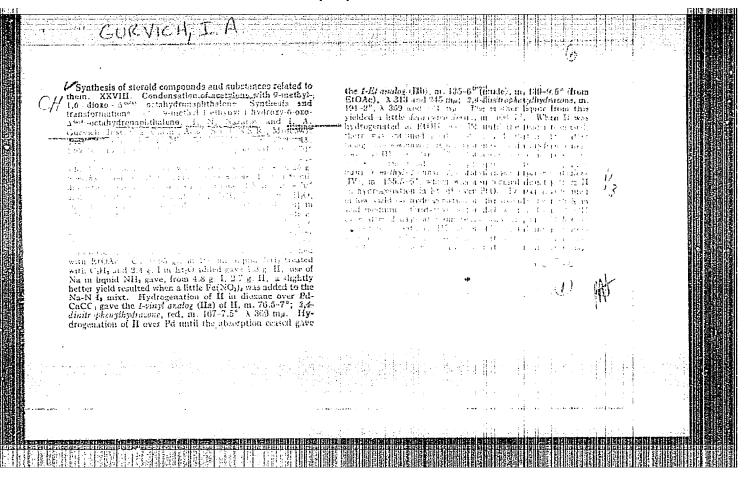
Isomerism

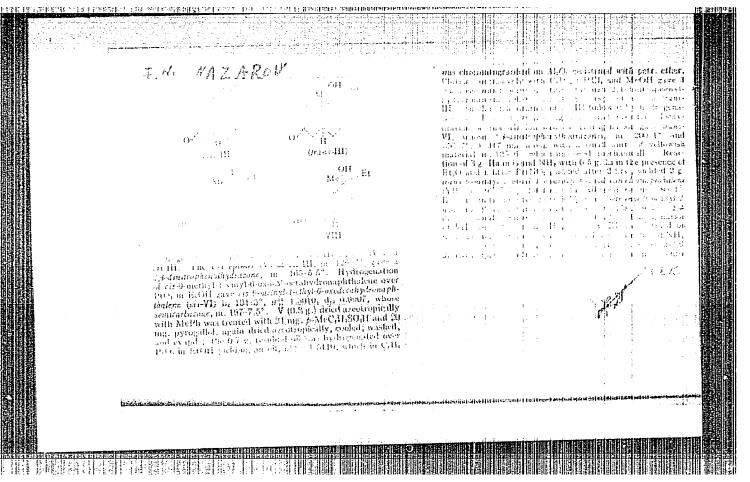
Acetylene derivatives. Part 144. Heterocyclic compounds. No. 20. Stereoisomerism of hydrogenated thiochromanones. Part 2. Zhur. ob. khim. 22 no. 8, 1952.

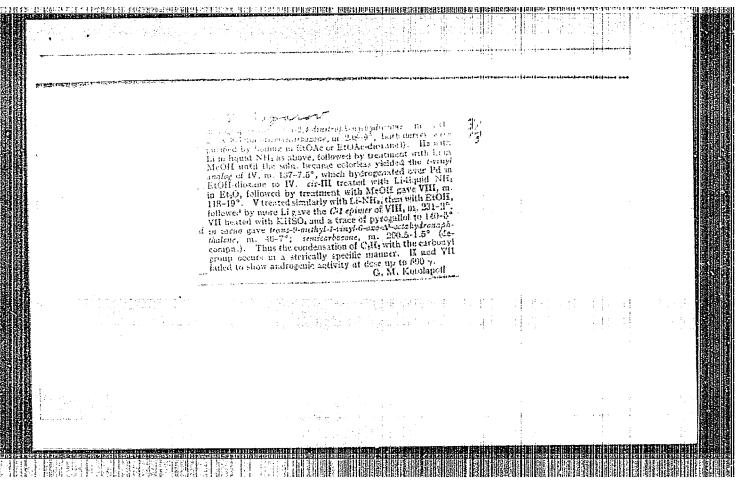
Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

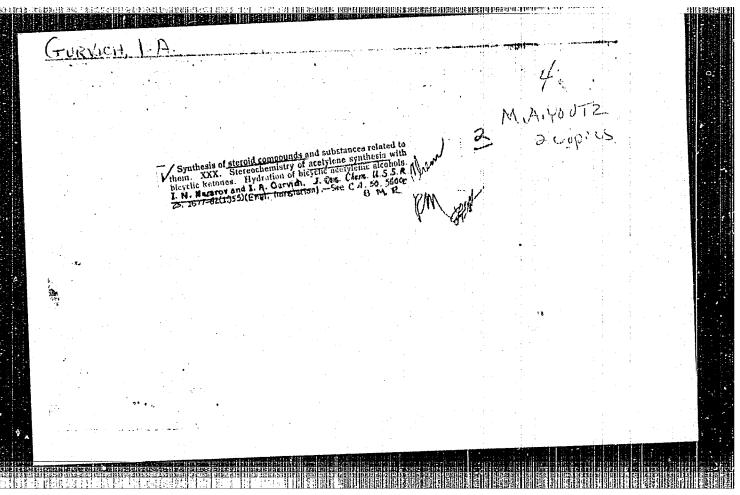








"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1



NAZAROV, I.N.; GURVICH, I.A.

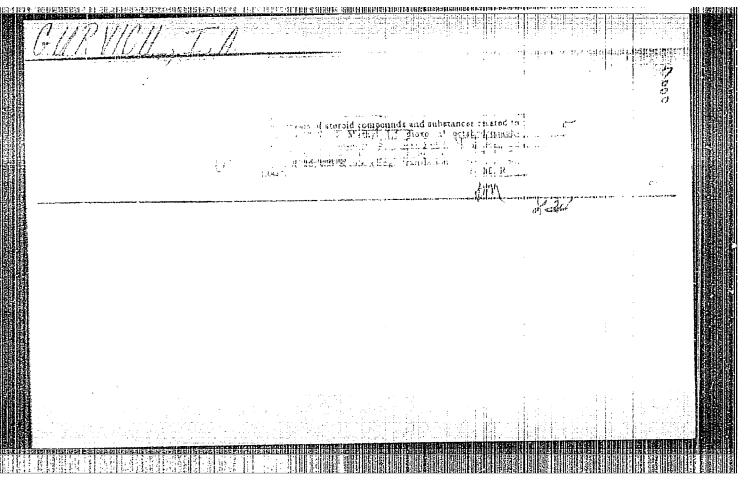
Synthesis of steroid compounds and of substances related to them..

Part 30. Stereochemistry of the acetylene synthesis with bicyclic ketones. Hydration of bicyclic acetylenic alcohols. Zhur.ob.khim.

25 no.9:1723-1730 S '55. (MIRA 9:2)

1.Institut organicheskoy khimii Akademii nauk SSSR. (Alcohols) (Steroids) (Hydration)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1



NAZAROV, I.N.; ZAV'YALOV, S.I.; BURMISTROVA, M.S.; GURVICH, I.A.; SHMONINA, L.I.

Synthesis of steroid compounds and related substances. Part 34. 9-methyl-1,6-diketo- Δ^5 -octahdronaphthalene. Zhur.ob.khim. 26 no.2:441-444 F '56. (MLRA 9:8)

1. Institut organicheskoy khimii Akademii nauk SSSR. (Naphthalene)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1 14日(25月) 1618年 - 2018年 | 1811年 | 1811

AUTHORS:

Nazarov, I. N., Gurvich, I. A.

62-53-3-24/30

TITLE:

The Synthesis of 9-Methyl-0xy- Δ^5 -6-Octalon (Sintez

9-metil-1-oksi- Δ^5 -6-oktalona)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 3, pp. 371-372 (USSR)

ABSTRACT:

A convenient method for the synthesis of 4^{5} -1,6-diketooctalin was already worked out in the laboratory of the authors. The keto alcohol corresponding to it also represents one of the important intermediate products of the synthesis of triterpinoids and polycyclic compounds. It was possible to synthetize diasteric isomers of keto alcohol by means of the microbiological reduction of diketooctalin. In the present report a new preparative method for the synthesis of ketoalcohol by means of the reduction of diketooctalin with sodiumborohydride was described. It turned out that in the reduction of Δ^5 -1,6-diketooctalin the keto alcohol can be

produced in a yield of 50 %. As expected mainly cis-9-methyldekalin derivatives are formed in the catalytic hydrogenation of keto alcohol and diol which proved their oxidation in

Card 1/2

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

The Synthesis of 9-Methyl-Oxy- Δ^5 -6-Octalon

62-58-3-24/30

cis-diketodekalin. In the reduction of keto alcohol by lithium in liquid ammonia corresponding trans-9-methyldekalin derivatives are produced. There are 1 figure and 6 references,

2 of which are Slavic.

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelinskogo Akademii

nauk SSSR (Institute for Organic Chemistry imeni

N.D.Zelinskiy, AS USSR)

SUBMITTED: October 26, 1957

Card 2/2

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1 STOTEMENT BY EVEN CONTRACTOR OF THE SECURITIES O

5(3) AUTHORS:

Nazarov, I. N., Gurvich, I. A.

TITLE:

Synthesis of Steroid Compounds and Related Substances (Sintez steroidnykh soyedineniy i rodstvennykh im veshchestv). Com-

SOV/62-59-2-17/40

munication 43. Total Synthesis of d,1-18-Nor-D-homo-

 $\Delta^{9(11)}$ -androstene-3,17a-diol (Soobshcheniye 43. Polnyy sintez

 $d,1-18-nor-D-gomo-\Delta^{9(11)}$ -androsten-3,17a-diola)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 2, pp 293-303 (USSR)

ABSTRACT:

In the present paper the diacetate $\Delta^{9(11)}$ -nor-D-homoandrostene-3,17a-diol (VIII) which must have a steric structure corresponding with the natural hormons, was synthesized by means of diene condensation. The synthesis was carried out on the basis of the

trans-1-vinyl-6-keto-9-methyl- Δ^1 -octaline (I), previously obtained (Refs 8,9). By the condensation of dienone (I) with quinone at lower temperature a mixture of adducts (II) and (IIa) in a ratio of 3: 1 was obtained as a consequence of the endo-addition. The entire yield amounted to $\sim 60\%$. The two ad-

Card 1/4

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

Synthesis of Steroid Compounds and Related Substances. Communication 43. Total Synthesis of d,1-18-Nor-D-homo- $\Delta^{9(11)}$ -androstene-3,17a-diol

ducts can be easily reduced by means of zinc in acetic acid to the triketones (III) and (IIIa) with a saturated D-ring. The isomerization of these triketones proceeds smoothly on aluminum alkali oxide. Only one triketone (IV) and (IVa) each with a trans-combination of the A-B- and C-D-rings, the most stable trans-anti-trans-structure must correspond with, is formed. On the reduction of (IV) by means of skeleton nickel in alcohol or platinum in acetic acid the ketodiol (V) is formed in a yield of \sim 30%. This is readily acetylated and forms the corresponding diacetate (VI). In addition to (V) apparently some mixtures of isomeric triols are formed. The results of the hydrogenolysis of thicketal (VII) which was obtained from the reaction of ketodioldiacetate (VI) with thioglycol, the diacetate (VIII) (\sim 75%) was obtained by means of skeleton nickel in alcohol. On hydrogenation of (II) with platinum oxide catalyst in alcohol the diketo alcohol (IX) was separated. On total reduction of (III) by means of NaBH, or LiAlH, the triol (X), and on the reduction of (IIIa) with LiAlH (Xa) were obtained.

Card 2/4

Synthesis of Steroid Compounds and Related Substances. Communication 43. Total Synthesis of d,1-18-Nor-D-homo-29(11) -androstene-3,17a-diol

On acetylation of these triols corresponding diacetates (XI) and (XIa) were obtained. Yield 60 and 40%. From (X) also the triacetate (XII) was obtained. On the oxidation of (XI) with chromic acid anhydride in acetic acid the diketone (XIII) was separated. The trans-trans-triketone (IV) is difficult to reduce in the mixture of ether and dioxane, apparently owing to bad solubility of LiAlH . The triol (XIVa) was there obtained in the form of triacetate (XVa). On the reduction of (IV) with lithium in liquid ammonia the isomeric triol (XIV) reduction of (IV) with excess NaBH an alcoholic mixture was obtained which yielded after the acetylation the triacetates (XIV) and (XIVa). Preliminary experiments with (XV), (VIII), androgenic activity. There are 1 figure and 10 references,

Card 3/4

SOY/62-59-2-17/40

Synthesis of Steroid Compounds and Related Substances. Communication 43.

Total Synthesis of d,1-18-Nor-D-homo- $\Delta_{\rm s}^{9(11)}$ -androstene-3,17a-diol

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii ASSOCIATION:

nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy of the Academy of Sciences, USSR)

May 31, 1957 SUBMITTED:

Card 4/4

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

SOY/79-29-2-24/71

Nazarov, I. N. (Deceased), Gurvich, I. A. AUTHORS:

Synthesis of the Steroid Compounds and Their Related Products TITLE:

(Sintez steroidnykh soyedineniy i rodstvennykh im veshchestv).

44. Reduction of 9-Methyl-1-ethynyl-1-oxy-6-keto- Δ^5 -octaline and Its Derivatives With Sodium Boron Hydride (44. Vosstanovleniye

9-metil-1-etinil-1-oksi-6-keto- Δ^5 -oktalina i yego proizvodnykh

borgidridom natriya)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 467-472 (USSR)

Of late the reduction of keto steroids to the corresponding al-ABSTRACT:

cohols was very closely investigated, especially with metyl hydrides of the type MeAlH₄, MeBH₄, MeH(BOR)₃, the most con-

venient being NaBH4, with which a selective and a spatially

selective reduction of ketones can be carried out (Ref !). The work under review was undertaken with a view to attain the intermediate products in the steroid synthesis. For this purpose

keto alcohols (I-VI) were reduced in diluted alcohol solutions

Card 1/3 and cooling with $NaBH_4$. The corresponding alcohols were obtained

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

Synthesis of the Steroid Compounds and Their Related Products. 44. Reduction of 9-Methyl-1-ethynyl-1-oxy-6-keto- Δ^5 -octaline and Its Derivatives With Sodium Boron Hydride

with good yields in crystalline state (VII-XII), all in the same spatial position of the hydroxyl groups on ${\bf C}_6$. This could be proved by hydrogenation into one and the same diol (X), which had earlier been synthesized by hydrogenation of alcohol (I) and (XI). (XI) formed by reduction of keto alcohol II, which, as is known, leads to compounds with "equatorial orientation" of the alcohol group. The same applies to the reduction of ketones with spatially difficult arrangement. Thus, in synthesized alcohols (VII-XII) the secondary alcohol groups must occupy an equatorial position. The acetylation of diols (VII-XII) with acetic acid anhydride in pyridine occurs selectively, under the formation of 6-monoacetate (XIII-XVIII). The tertiary hydroxyl on the carbon is not acctylated. On reducing acetylene keto alcohol (XIX) with NaBH4 under above conditions, two isomeric diols (XX) and (XXI) are formed, which is the cause of further transformations. There are 8 references, 3 of which are Soviet.

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SOV/79-29-2-24/71

Synthesis of the Steroid Compounds and Their Related Products. 44. Reduction of 9-Methyl-1-ethynyl-1-oxy-6-keto- Λ^5 -octaline and Its Derivatives With Sodium Boron Hydride

ASSOCIATION:

Institut organicheskoy khimii Akademii nauk SSSR (Institute of

Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

November 28, 1957

Card 3/3

5 (3) 507/79-29-3-5/61

Nazarov, I. N. (Deceased), Gurvich, I. A., Aleksandrova, G. V.

Kuznetsov, N. V., Vasil'yev, A. F.

TITLE: Stereochemistry of the Synthesis of Acetylene With Bicyclic

Ketones (Stereokhimiya atsetilenovogo sintezac bitsiklicheskimi ketonami). Synthesis of Cis-1-ethynyl-1-oxy-6-decalone. Ab-

sorption Spectra of the Series of Tert.a-decalols (Sintez tsis-1-etinil-1-oksi-6-dekalona. Spektry pogloshcheniya ryada

tretichnykh a-dekalolov)

AUTHÓRS:

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 753-761 (USSR)

ABSTRACT: Proceeding from the experience acquired in their earlier ex-

periments (Refs 1-3) the authors interpreted the configuration of the substituents at the C, in the alcohol (I) and in the product of its hydration (II) on the basis of the reactivity of these substituents. In the work under review the condensation of cis-methoxyoctalone (III) with sodium acetylenide was carried out in liquid ammonia and after saponification of the reaction product acetylene alcohol (IV) was obtained

as chief product, besides small quantities of isomeric acetylene

alcohols (IVa and IVb). Compound (IV) in methanol in the

Card 1/3 presence of sulphuric mercury smoothly hydrates into decalone(V),

sov/79-29-3-5/61

Stereochemistry of the Synthesis of Acetylene With Bicyclic Ketones. Synthesis of Cis-1-ethynyl-1-oxy-6-decalone. Absorption Spectra of the Series of Tert.a-decalols

> which easily forms bis-2,4-dinitrophenyl hydrazone. On the basis of the latter two easy reactions it must be assumed that both compounds have the same spatial arrangement of the side chain and of hydroxyl at the C1, like cis-ethynyl decalol (I) and the corresponding acetyl derivative (II). In hydrogenation, compound (IV) yields ethyl decalone (VI) in crystals, which by reduction yields diol (VII) (Scheme 2). In the reaction with (III) and subsequent saponification, ethyl magnesium bromide yields an oil, which by reduction forms ethyl diol (VII). In the reaction of ethyl magnesium iodide with (VIII) an oil is formed, which in reduction forms the isomeric diol (X). (X) yields in its oxidation the isomeric ketol (IX) of compound (VI). Thus keto alcohol (VI) is a cis-decalin derivative, so that also acetylene alcohol (IV) and its derivatives belong to this series. Keto alcohol (IX) and diol (X) are thus derivatives of transdecalin. Several substituted cisand trans- α -decalols were obtained. The absorption spectra of several tertiary a-decalols are shown. It may be seen from

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

507/79-23-3-5/61

Stereochemistry of the Synthesis of Acetylene With Bicyclic Ketones. Synthesis of Cis-1-ethynyl-1-oxy-6-decalone. Absorption Spectra of the Series of Tert.a-decalols

them that cis-ethynyl- α -decalols synthesized in the same way possess the same chemical properties and the same absorption spectra. There are 3 figures and 12 references, 6 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR

(Institute of Organic Chemistry of the Academy of Sciences,

ÚSSR)

SUBMITTED: January 4, 1958

Card 3/3

sov/79-29-3-6/61 Nazarov, I. N. (Deceased), Vasil'yev, A. F., Gurvich, I. A. 5 (3,4) AUTHORS: Infrared Absorption Spectra of the Substituted Trans-1,6-decalindiols and Δ^{5} -1,6-Octalindiols (Infrakrasnyye spektry TITLE: pogloshcheniya zameshchennykh trans-1,6-dekalindiolov i Δ^5 -1,6oktalindiolov) PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 761-767 (USSR) The present paper deals with the absorption spectra of 1-substituted trans-9-methyl-1,6-decalindiols (I, II, III) ABSTRACT: (Fig. 1 (1-3)), 9-methyl- Δ 5-1,6-octalindicls (X, XI, XII) (Fig. 2 (10-12)) and their 6-monoacetates (IV, V, VI, XIII, XIV, XV) (Fig 1 (4-6) and Fig 2 (13-15)), as well as the absorption spectra of the initial keto alcohols (VII-IX, XVI-XVIII) (Fig. 1 (7-9) and Fig. 2 (16-18)) which do not contain any secondary alcohol group recorded in the spectrum range 900-1500 cm 1. All these compounds (I-XVIII) being tertiary α -decalols have the same configuration as the substituents at the C1, since they all originate from the acetylene alcohol (XVIII). The diols (I-III, X-XII) contain a secondary alcohol group having an equal spatial arrangement, Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

SOV/79-29-3-6/61 Infrared Absorption Spectra of the Substituted Trans-1,6-decalindicls and Λ^5 -1,6-Octalindicls

as they are all transformed into one and the same diol (I) in the hydrogenation of the unsaturated alcohols (II, III, X-XII). Figure 1 shows the spectra of trans-9-methyl-decalin derivatives. In comparing the spectra a marked difference may be observed between those of the ketones, alcohols and acetates. Figure 2 shows the absorption spectra of 9-methyl- Δ^5 -octalin derivatives. These spectra give a general picture of those illustrated in figure 1. Thus, the absorption spectra of several substituted 1,6-decalindiols, Δ^{5-1} ,6-octalindiols, of their acetates and corresponding 6-keto alcohols in the spectrum range 900-1500 cm⁻¹ were shown and described. By the aid of the absorption spectra of 1-ethyl., 1-vinyl., 1-ethynyl-substituted 9-methyl-1,6-decalindiols, of 9-methyl- Δ^{5} -1,6-octalindiol and its derivatives, as well as by the aid of the spectra of their acetates it was shown that these compounds contain a secondary alcohol group having an equatorial orientation. There are 2 figures, 1 table, and 6 references, 4 of which are Soviet.

Card 2/3

507/79-29-3-6/61

Infrared Absorption Spectra of the Substituted Trans-1,6-decalindiols and Δ^{5} -1,6-Octalindiols

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR

(Institute of Organic Chemistry of the Academy of Sciences,

January 4, 1958 SUBMITTED:

Card 3/3

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

KUCHEROV, V.F.; GURVICH, I.A.

Stereochemistry of cyclic compounds. Part 37: Synthesis of 5,9-dimethyl- \(\sum_{1}^{2} \) i,6 -dimethocotalin and configuration of its reduction products. Znur. ob. khim. 31 no.3:796-804 Mr '61.

1. Institut organicheskoy khimii imeni N. D. Zelinskogo AN SSSR.

(Naphthalenedione)

GURVICH, I.A.; KUCHEROV, V.F.; ILYUKHINA, T. V.

Stereochemistry of cyclic compounds. Part 38: Stereochemistry of reduction of 5,9-dimethyl-1-ethynyl-1-hydroxy- \(\Lambda^2 - 6 - \text{octalone} \) of reduction of \$5,9-dimethyl-1-ethynyl-1-hydroxy- \(\Lambda^2 - 6 - \text{octalone} \) of reduction of \$2 - \text{bur}\$. ob. khim. 31 no.3:804-810 Mr 61.

and its dirivatives. Zhur. ob. khim. 31 no.3:804-810 Mr 61.

(Nama 11:3)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

(Naphthalenone)

NAZAROV, Ivan Nikolayevich [1906-1957]; TORGOV, I.V., doktor khim.nauk, otv.rod.; ANDREYEV, V.M., kand.khim.nauk, red.; GURVICH, I.A., kand.khim.nauk, red.; SHVETSOV, N.I., kand.khim.nauk, red.; YANOVSKAYA, L.A., kand.khim.nauk, red.; RUDENKO, V.A., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Selected works] Izbrannye trudy. Moskva. Izd-vo Akad.nauk SSSR, 1961. 690 p. (MIRA 14:4)

(Chemistry, Organic)

KUCHEROV, V.F.; GURVICH, I.A.

Use of trans-1-vinyl-6-acetoxy- and trans-1-vinyl-6-ethylenedioxy-9-methyl-1-octalines in diene synthesis reactions. Izv.AN SSSR, Otd. khim.nauk no.6:1152-1153 Je '61. (MIRA 14:6)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Naphthalene) (Unsaturated compounds)

Stereochemistry of cyclic compounds. Part 40: Stereochemistry of diene condensation of trans-l-vinyl-6-keto-9-methyl-1-octalin with maleic anhydride, and some transformations of formed isomers and their ketals. Zhur.ob.khim. 31 no.9:2832-2839 S 61.

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR. (Cyclic compounds) (Stereochemistry)

GURVICH, I.A.; MIL'SHTEYN, I.M.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Part 43: Stereochemistry of the dieme condensation of trans-l-vinyl-b-acetoxy-9-methyl-cotalin with maleic anhydride, and some transformations of dicarboxylic acids of the phenanthrene series. Zhur.ob.khim. 31 no.12:3939-3945 D *61. (MIRA 15:2)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.

(Naphthalene)

(Maleic anhydride)

(Phenanthrenecarboxylic acid)

(Stereochemistry)

KUCHEROV, V. F.; GURVICH, I. A.

Trans-1-vinyl-6-oxo-9-methyl- Δ^{i} -octalin in the reactions of diene synthesis and some conversions of d,1-18-nor-14-iso-oxy- $\Delta^{q}(n)$ -androstene-15,17-dione acetate. Izv. AN SSSR Otd.khim.nauk no.2:363-365 F 162. (MIRA 15:2)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR. (Naphthalene) (Androstenedione)

KUCHEROV, V.F.; MIL'SHTEYN, I.M.; GURVICH, I.A.

Stereochemistry of cyclic compounds. Part 46; Configuration of adducts of trans-1-vinyl-6-keto-9-methyl-1-ectalin with maleic anhydride. Zhur.ob.khim. 32 no.3:765-773 Mr '62.

(MIRA 15:3)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.

(Naphthalene) (Maleic anhydride) (Stereochemistry)

GURVICH, I.A.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.59: Action of hypobromous acid on 13-methyl-7-keto-2, 2dodecahydrophenanthrene-cis-1,2-dicarboxylic acid and its diester. Izv. AN SSSR Ser. khim. no.7:1241-1245 Jl '64. (MIRA 17:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

KUCHEROV, V.F.; GURVICH, I.A.; RUDFNKO, B.A.

Stereochemistry of cyclic compounds. Report No.60: Synthesis

of dicarboxylic acids of the decahydrofluorene series. Izv. AN SSSR. Ser. khim. no.8:1456-1463 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GURVICH, I.A.; KUCHEROV, V.F. Cis-l-vinyl-8-methyl- Δ !-hexanydroinden-5-one in the reactions of diene synthesis. Izv. AN SSSR. Ser. khim. no.8:1507-1509 (MIRA 17:9)

Ag 164.

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

KUCHEROV, V.F.; GURVICH, I.A.; MIL'SHTEYN, I.M.

Stereochemistry of the oxidation of geometrical somers of 13-methyl-7-acetoxy- $\triangle 4(12)$ -dodecahydrophenanthrene-1,2-dicarboxylic acid and their derivatives. Dokl. AN SSSR 158 no.1:159-162 S-0 *64 (MIRA 17:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

KUCHEROV, V.F.; GURVICH, I.A.; SIMOLIN, A.V.; MIL'SHTEYN, I.M.

Chromatographic analysis and preparative separation of gibberellins. Dokl. AN SSSR 163 no.3:765-767 Jl '65. (MIRA 18:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Submitted October 7, 1964.

Gogy Ref. 1..., hill strove, this relatively, v.F.

Some transformations of gibberellie acid serivatives. 127. Sept. Ser. Pin. no. 3:192.136 (66. (MEA 19:1))

1. institut cryunicheskey Whimin im. N.B. Sellarkono Ad 3988.

Submitted func 9, 1965.

GURVICH, I.B.

USSR/Miscellaneous

Card 1/1

Pub. 12 - 9/15

Authora

* Lukin, N. P.; Slepova, E. Z.; Gurvich, I. B.; Paheniahnov, A. V.; and Chumakova. N. M.

Chumakova, N. M.

Title

s Improvement in the finishing of engine parts

Periodical

Avt. trakt. prom. 2, 28-29, Feb 1954

Abstract

The importance of qualitative preparation of friction surfaces of auto-engine parts, is explained. The methods and means employed by the Molotov Automobile Plant in Gorkiy for improving the quality and service life of parts for the engines Gaz-51, Gaz-63, M-20 and ZIM, are described.

Institution : The V. M. Molotov Automobile Plant, Gorkly

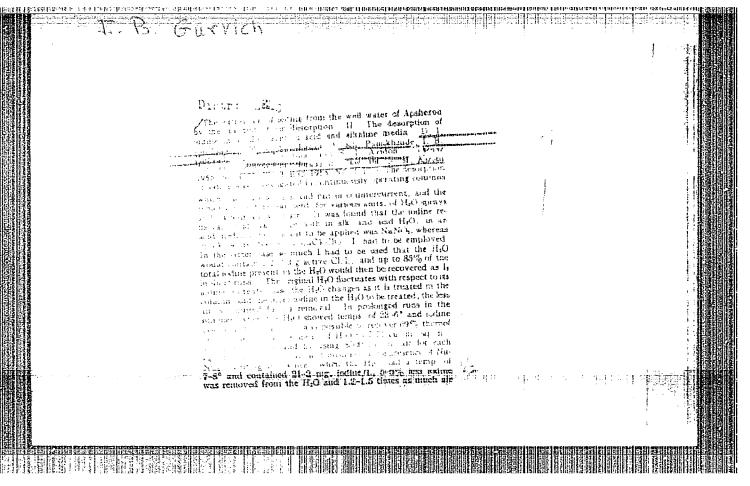
Submitted

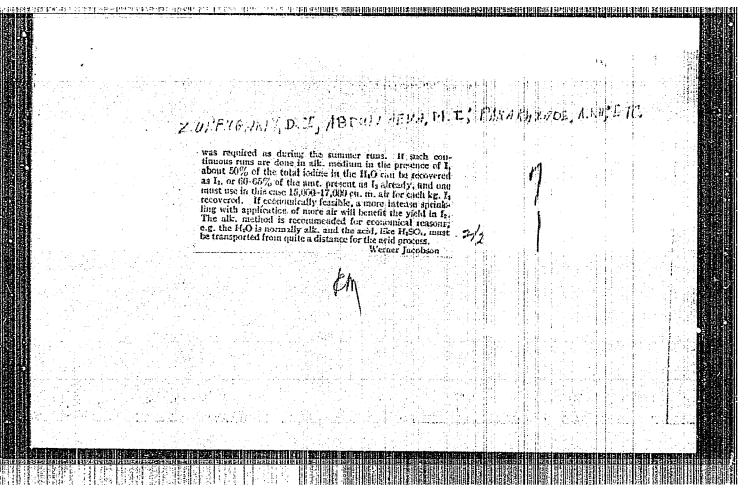
CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

GURVICH, I.B., kandidat tekhnicheskikh nauk.

Improving the finishing of working surfaces and extending the life of an engine valve and its bushing. Avt.trakt.prom. no. 12:21-23 D *54. (MIRA 8:2)

Gor'kovskiy avtosavod im.Molotova.
 (Gas and oil engines--Valves)





	FROVED FOR RELEASE. VO TO ZOUT CIA-REPOS-VOSTSROVOIT/SIVUIS-I	enenues:
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_	URVICH, I., kandidat tekhnicheskikh nauk.	(注意) (注意) (注意) (注意) (注意) (注意) (注意) (注意)
	URVICH, 1., Kandidat tokimitanosa	
·	Measures for raising the quality of GAZ engines. Avt.transp. 33 (MLRA 9:3) no.11:21-23 N '55.	
	l. Gor'kovskiy avtozavod imeni Molotova. (AutomobilesEngines)	
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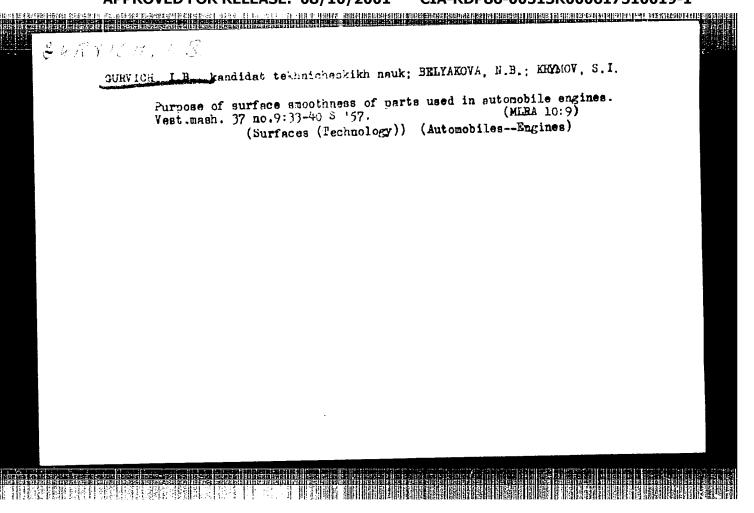
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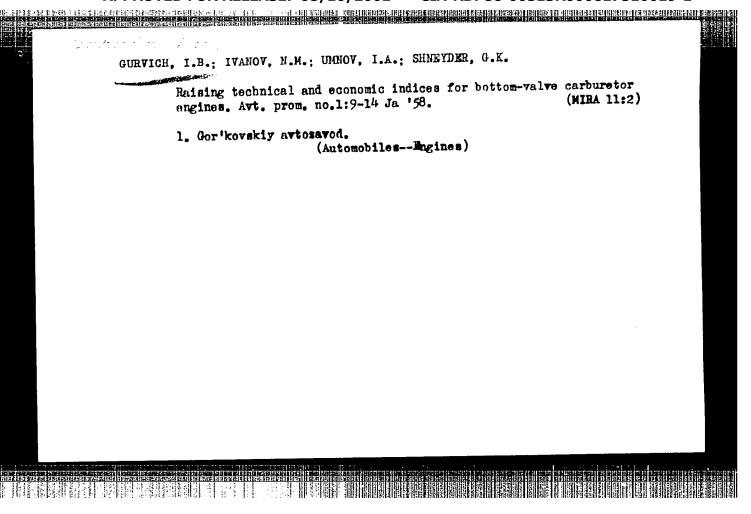
COURTNAM, I, M. USSR/Engineering - Auto engines Card 1/1 Pub. 128 - 11/31 Curvich, I. B., Cand. Tech. Sc., and Chernomashentsev, A. I., Engineer Authors Effect of running-in conditions on the subsequent service life of auto Title engines Periodical : Vest. mash. 35/5, 31-33, May 1955 The most objective criteria in evaluating the quality of auto engine Abstract running-in processes are outlined. It is stated that the selection of optimum conditions for factory running-in of auto engines should be based on the analysis of possibilities for the obtainment of the desired macroand micro-geometry of friction surfaces during the manufacture of engine parts. It is shown that the quality of surface burnishing depends not only upon the quality of lubricants used but also upon the rpm. Two USSR references (1952-1955). Table; graphs. Institution: Submitted : ..

GURVICH, I: kandidat wkhnicheskikh nauk.

Proventing premature wear in cylinders of the ZIM engine, Avt. i trakt. prom. no.11:11-15 N '56. (MIRA 10:1)

1. Gor'kovskiy avtozavod imeni Molotove. (Cylinders.-Automobiels.-Engines)





GURVICH, I.B.

113-58-6-5/16

AUTHOR:

Gurvich, I.B., Candidate of Technical Sciences

TITLE:

On Oil Consumption and the Leakage of Gases in Automobile Engines (O raskhode masla i propuske gazov v avtomobil'nykh

dvigatelyakh)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 6, p 10-13 (USSR)

ABSTRACT:

The author made numerous experiments on various automobile engines to determine the oil consumption and the leakage of gas under different lubricating and ventilating conditions. Graphs show the results of these trials and the author arrived at the following conclusions: basic initial parameters determinating the oil consumption of the engine are the degree of running-in of the cylinder-piston unit, the gaps in the guiding bushing-valve unit, radial gaps in the cylinder-piston unit, and the width of the internal conical edge of the compression piston rings. Oil consumption also depends on the ventilation system of the crank case. The evaluation of the technical condition of the engine must be judged by the oil consumption, taking into consideration indicators of the leakage of gas through the piston rings. The author also indicates the limits of oil consumption for some Soviet engines.

Card 1/2

113-58-6-5/16

On Oil Consumption and the Leakage of Gases in Automobile Engines

There are 5 graphs, 2 tables and 1 Soviet reference.

ASSOCIATION: Gor'kovskiy avtozavod (The Gor'kiy Automobile Plant)

Card 2/2 1. Automobile engines--Gas leakage 2. Automobile engines

--Oil consumption

SOV-113-58-9-6/15

AUTHORS:

Gurvich, L.B., Candidate of Technical Sciences, Vasil'yev,

0.S., Sukhanov, V.A.

TITLE:

The Limitation of Loads at the Running-in of the Engine in the Automobile (Ogranicheniye nagruzok pri obkatke dviga-

telya na avtomobile)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 9, pp 15-16 (USSR)

ABSTRACT:

In running-in the engine, to accomplish the mechanical finishing of the engine surfaces, a disk used to be inserted between the carburetor and the feed pipe in light cars. This was not necessary for trucks, since there are enough means to direct the number of revolutions. The inserted disk behind the carburetor had the disadvantage that the atomization of the fuel in the engine became force and caused settling of the gasoline on the walls of the supply pipe system finally resulting in scale formation in the compression chambers and on the piston bottoms. A suggestion is made to replace the inserted disk by a baffle plate (Figure 2) for fixation of the deflection angle. This eliminates the necessity of separating the carburetor from the feed pipe after the 1,000-km-running-in period, to remove the disk. In the

Card 1/2

SOV-113-58-9-6/19

The Limitation of Loads at the Running-in of the Engine in the Automobile

case of the baffle plate only a screw is unscrewed and the plate easily removed. Five M-20 and 3 ZIm engines were given test runs to try both principles (Table 2). They resulted in favor of the baffle plate, since there are none of the disadvantages caused by the disk and an additional economy of 1 to 1.25 liters of gasoline per 100 km running-in con-

There are 4 graphs, 1 diagram and 2 tables.

ASSOCIATION: Gor'kovskiy avtozavod (The Gor'kiy Motor Vehicle Plant).

1. Automobiles--Performance 2. Combustion engines--Test methods

Card 2/2

12(2) 307/113-59-4-12/19

AUTHOR: Gurvich, I.B., Candidate of Technical Eciences

TITLE: The Initial Parameters of Engine Wear

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 4, pp 33-36 (USSR)

ABSTRACT: Presently, studies are being made at the Gor'kovskiy avto-

zavod (Gor'kiy Automobile Plant) concerning the basic wear parameters of different automobile engine models. These basic wear parameters are: constructional parameters, state of friction surfaces, finishing of friction surfaces and operating conditions of the engine. Each of these parameters involves a great number of factors. By studying these factors appropriate measures may be taken for increasing the wear resistance of friction surfaces, or reducing the labor consumption of their manufacture. For example, the application of expensive austenitic steel for cylinder sleeves of M-20, GAS-51, ZIM engines and their modifications, is economically justified. For engines with easily replaceable sleeves, it is more suitable to replace the sleeves together

Card 1/2 with the piston rings. For the GAZ-12 engine a chrome-plat-

30V/113-59-4-12/19

The Initial Parameters of Engine Wear

ing of the piston rings is required, while there is no reason to do this for pistons rings of M-20, GAZ-51 and GAZ-63 engines which work with lower piston velocities. The author then discusses constructional parameters, the condition of friction surfaces, conditions for matching parts, surface finishing and operating conditions of the engine. He concludes that a systematic compilation of information concerning the wear resistance of automobile engines will require in some cases experimental investigations, or, vice versa, the theoretical foundations will be necessary for experimental experience. For a further increase of the length of service of automobile engines, additional studies must be made on the initial wear parameters. There are 3 graphs, 2 tables and 7 Soviet references.

ASSOCIATION: Gor'kovskiy avtozavod (Gor'kiy Automobile Plant)

Card 2/2

.12(2

COV/113-59-6-10/21

AUTHOR:

Yegorova, A.P., Umnov, I.A., Meshcheryakov, I.G., Gurvich, I.B., Candidate of Technical

Sciences

TITLE:

The Temperature Field of Crankshaft Bearings

PERIODICAL:

Avtomobil naya promyshlennost, 1959, Nr 6, pp 29-31

(USSR)

ABSTRACT:

The article describes tests carried out at the Gor'kiy Automobile Plant to establish the influence of various factors on the temperature field of the crankshaft bearings of M-20 and M-21A four-cylinder engines. Reference is made to similar tests carried out by the MVTU imeni Bauman on the crankshaft bearings of a GAZ-51 in 1948. The influence of the rpm, engine load and viscosity of the oil on the bearings is shown in Figure 2. Speed is seen to be the biggest factor, as every 500 rpm increases the

the biggest factor, as every 500 rpm increases the temperature of the bearings from 12° at low rpm to 22° at maximum rpm. The addition of 2% colloidal

Card 1/3

SCY/113-59-6-10/21

The Temperature Field of Crankshaft Bearings

graphite to the SU machine oil used reduced the temperature by 6-12% in the M-21A and not more than 6% in the M-20 (Figure 3). The effect of the oil pressure (Figure 4) is givan; reduction of the oil pressure from 3 to 2 kg/cm increased the temperature of the bearings by 3-7% in the M-21-A but had no effect in the M-20. It is shown in Figure 5 how opening the throttle increases the temperature even though the rpm are constant. The crankshafts of both engines were then revolved hot and cold to find the effect of the combustion on the bearing temperature. No change was observed in the M-20 but there was an increase of 1-3% in the M-21-A. The deterioration in the hardness of tellurous babbitts due to increased temperature is shown; the figures are 18.1 H_B at 20°C and 4.92 at 150°C. To reduce the temperature of the bearings

Card 2/3

12(2)

SOV/113-59-6-10/21

The Temperature Field of Crankshaft Bearings

the following measures are recommended: use of low-viscosity oil during running-in and normal use; addition of colloidal graphite, etc.; increase of oil pressure. There are 4 diagrams, 1 graph and 1 table.

ASSOCIATION: Gor'kowskiy avtozavod (Gor'kiy Automobile Plant)

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

CIA-RDP86-00513R000617510019-1 "APPROVED FOR RELEASE: 08/10/2001

SOV/113-59-7-4/19 12(2)

Gurvich, I.B., Candidate of Technical Sciences AUTHOR:

Simplified Methods for Estimating the Breaking-In TITLE:

of Engines

Avtomobil'naya promyshlennost', 1959, Nr 7, pp 12-14 PERIODICAL:

(USSR)

The determination of the initial wear during the ABSTRACT:

breaking-in of automobile engines is one of the most complicated and labor consuming tasks. The existing methods have certain disadvantages, especially when they are to be applied on large series of engines. The determination of wear by micrometers produces little information during the initial phases of the breaking-in period. Inspection by profilometers is difficult and is only used in combination with other,

simpler methods. The application of radioactive iso-

topes necessitates the application of complicated Card 1/4

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617510019-1 "APPROVED FOR RELEASE: 08/10/2001

SOV/113-59-7-4/19

Simplified Methods for Estimating the Breaking-In of Engines

equipment and special safety measures. Its application on large engine series is connected with great difficulties. Plotting the so called "wear lines" on the results of oil analysis will produce objective results only when used on a large number of engines and implies errors during the analysis of oil samples. Estimating the progress of the breaking-in period by the reduction of mechanical losses is less labor consuming, but is also less accurate. However, when observing certain conditions, this method will reveal changes occurring in an engine during the breaking-in period with sufficient accuracy. In order to avoid errors, it is advisable to select the engines to be tested according to averaged optimum values of surface finishes, clearances, etc, or to increase the number of engines to be tested. Similar conditions must be observed with the method developed by the engine

Card 2/4

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

SOV/113-59-7-4/19

Simplified Methods for Estimating the Breaking-In of Engines

laboratory of the Gor'kiy Automobile Plant. This method does not require the application of dynamometers, since it is based on observing the rpm number during idling runs. This method was developed by investigating 30 engines of different GAZ models. All engines were tested with the same carburetor. The carburetor and ignition setting were equal for all engines. The author describes the development of this method in more detail. Since a large number of factors influence the rpm number at idling speed, detailed investigations had to be conducted for establishing the possible errors. Automobile engines of types M-20 and M-21 were used for the preliminary experiments. Figures 1, 2 and 3 contain graphs of the rpm number change at idling speed during the breaking-in period. Finally, the author presents the results of

Card 3/4

SOV/113-59-7-4/19

Simplified Methods for Estimating the Breaking-In of Engines

tests of "M-21" engines for the "Volga" automobiles. There are 5 graphs and 1 table.

ASSOCIATION: Gor'kovskiy avtozavod (Gor'kiy Automobile Plant)

Card 4/4

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

GURVICH, Il'ya Borisovich, kand. tekhn.nauk; KUGEL', R.V., kand.tekhn.

nauk, retsenzent; SMIRNOVA, G.V., tekhn. red.

[Wear of automobile engines] Iznos avtomobil'nykh dvigatelei; iz opyta Gor'kovskogo avtozavoda. Moskva, Mashgiz, 1961. 93 p.

(MIRA 14:11)

(Automobiles—Engines)

GURVICH, I.B., kand. tekhn. nauk; BOBKOV, Yu.K.; SEREBRYAKOV, K.B.

Improving the stability indices of automobile engines. Avt.prom.
(NIRA 14:9)

1. Gor'kovskiy avtozavod.
(Automobiles--Engines)

Effect of the surface finish of automobile parts on their wear. Avt. prom. 27 no. 4:16-17 Ap '61. (MIRA 14:4)

1. Gor'kovskiy avtozavod. (Automobiles—Engines—Cylinders)

GURVICH, I.B., kand. tekhn. nauk; YEGOROVA, A.P.; BUYNOV, A.F.

Increasing the heat resistance of automobile engine parts.
Avt. prom. 28 no.7:39-40 Jl '62. (MIRA 16:6)

1. Gor'kovskiy avtomyoniles—Engines)
(Heat resistant alloys)

GURVICH, I.B., kand.tekhn.nauk; SUKHANOV, V.A.

Oil loss and gas escape in the GAZ caged-valve engines. Avt.prom.
(28 no.12:27-28 D '62. (MIRA 16:1)

1. Gor'kovskiy avtozavod. (Automobiles--Engines)

man de la constante de la cons	Technological means for increasing the service life of engines. Avt.prom. 29 no.2:41-43 F 163. (MIRA 16:2)	
	l. Gor'kovskiy avtozavod. (Motor vehicles-Engines)	
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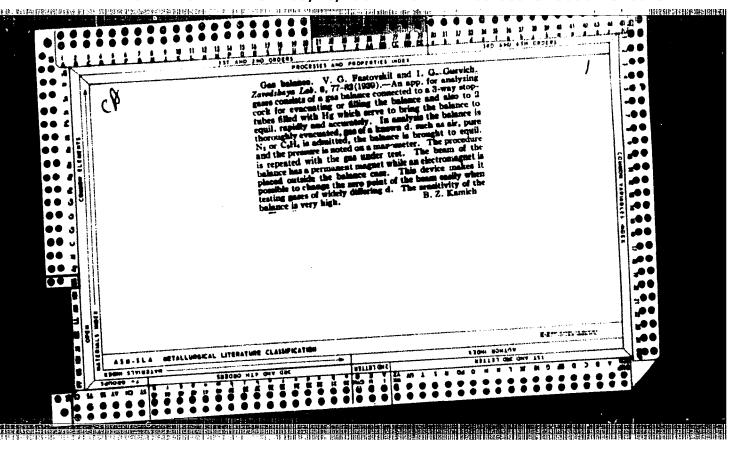
GURVICH, I.B., kand.tekhn.nauk; MAY, L.A.; BELYAKOVA, N.B.; KRYMOV, S.I.

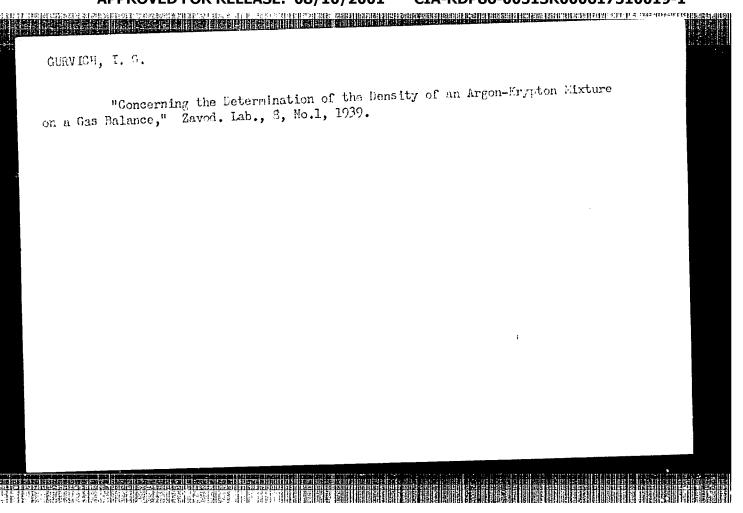
Macrogeometry and wear of engine parts. Avt.prom. 30 no.2: 38-41 F '64. (MIRA 17:4)

1. Gor'kovskiy avtomobil'nyy zavod i Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennôsti.

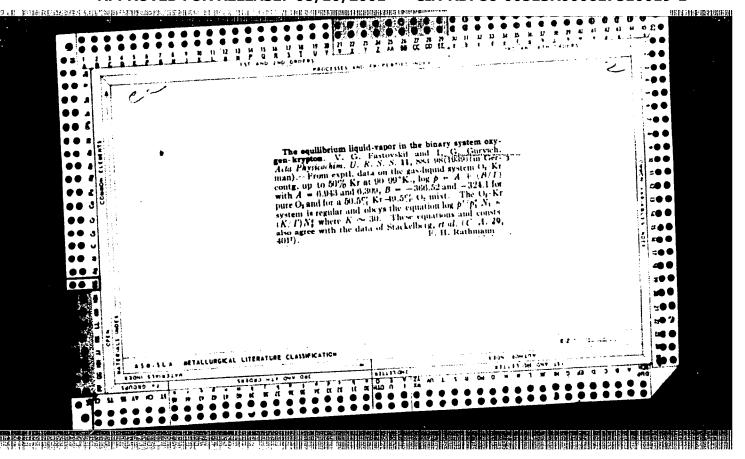
OURV.TE, f.R., and to the rest of the right-speed tear tenting of engines. Act. from 3: no.8:5-6 Ag '65. (Tr.A 18:6)

i. Genth-seekly sytomayed i denth-seekly self-skekhozyaystvennyy institut.





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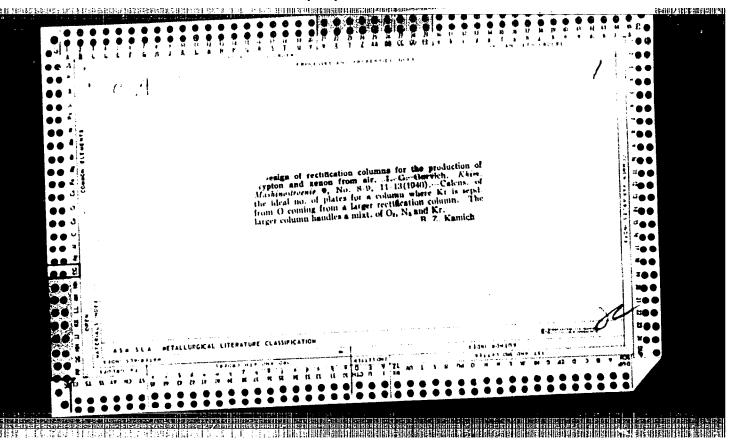


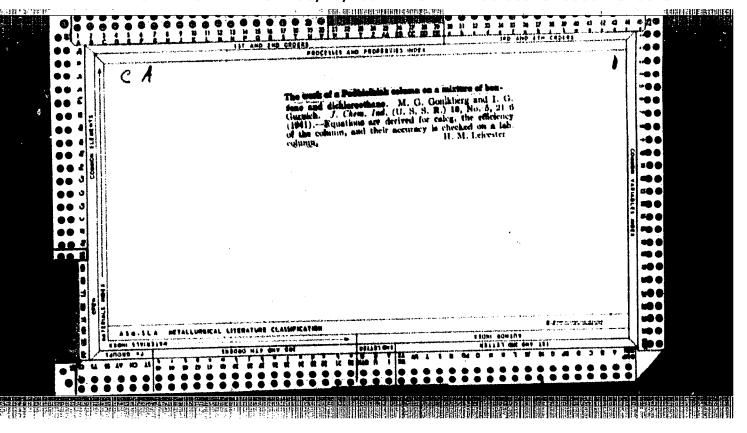
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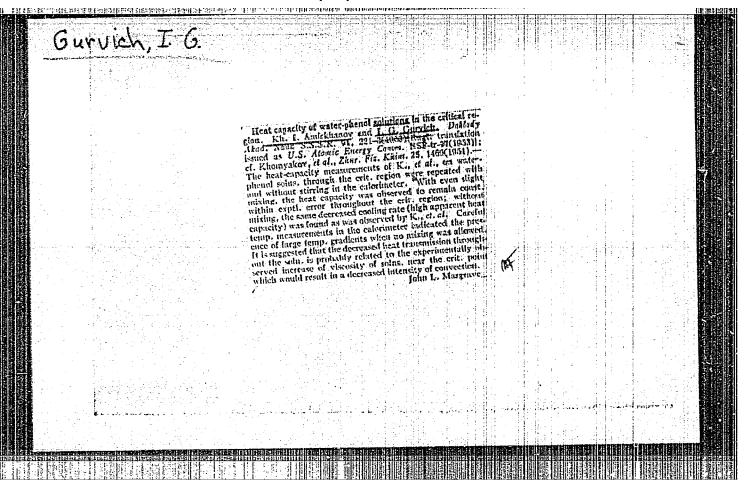
- 1. GONIKBERG, M. G.; FASTOVSKIY, V. G.; GURVICH, I. G.
- 2. USSR (600)

"The Solubility of Gasses in Liquids at Low Temperatures and High Pressures. I," Zhur. Fiz. Khim, 13, No. 11, 1939. Moscow, All-Union Electrotechnical Institute. Received 9 July 1939.

9. Report U-1615, 3 Jan. 1939.







·GURVICH, I.G.

USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36317

Amirkhanov, Kh. I., Gurvich, I. G., Sardarov, S. S. Author:

Institution: None

Title: Mass-Spectrometric Accelerated Method of Determining the Absolute Age of Geological Formations Using the Radioactive Decay of K40

in Ar⁴⁰

Original

Periodical: Izv. AN SSSR, ser. geol., 1955, No 4, 80-87

Abstract: A method was developed for accelerated determination of the abso-

lute age of rocks by argon-potassium methods. The total time of one determination of the amount of the radiogenic argon is 1-2 hours. The data obtained are in good agreement with the data measured by other methods. The values of the decay constants of potassium were taken from the data by E. K. Gerling. Measurements were made on the age of rocks and minerals in the northern Caucasus. The results of these measurements make it possible to

Card 1/2

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001

USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 317

Abstract: solve many problems in the geochron bogy of the northern Caucasus. The measurements have shown that it is possible

to determine the age of relatively geological formations

10-15 million years old.

Card 2/2

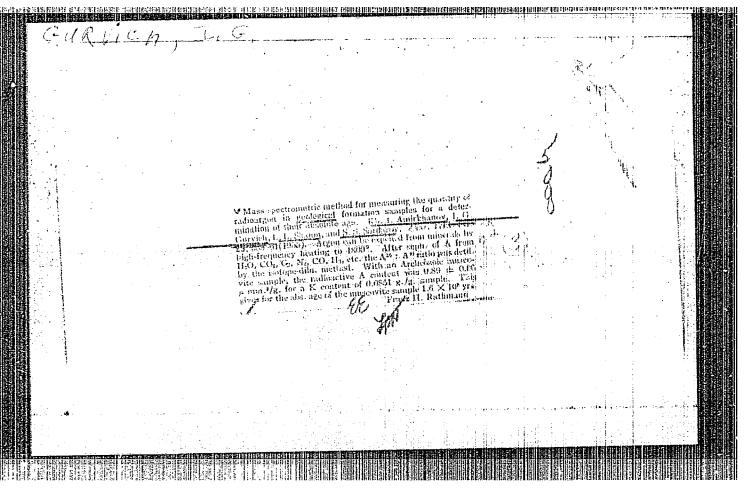
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GURVICH, I.G., IVANOV, V.S.

Blectrometric amplifier with 100% feedback. Zav.lab. 21 no.3:
365-366 '55. (MIRA 8:6)

1. Dagestanskiy filial Akademii nauk SSSR.
(Amplifiers, Electron-tube)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1



GURVICH, I.G.

USSR/ Chemistry - Physical chemistry

Oard 1/1

Pub. 22 - 33/60

Authors

Amirkhanov, Kh. I., Act. Memb. of Azerb. Acad. of Sc.; Gurvich, I. G.; AMERICAN STREET, 1915年11年11年11年11年11年11年11年11日 |

and Matizen. E. M.

Title

Specific heat of a phonol-water system in the critical zone

Periodical

Dok. AN SSSR 100/4. 735-736. Feb 1. 1955

Abstract

The specific heat of the phenol-water system was measured in the critical zone for the purpose of determining the magnitude of the specific heat jump with a greater accuracy than before and to compare the measured value with that obtained by another researcher. An increase in measurement accuracy was attained by continuous control of the temperature difference of the thermostat fluid and the investigated solution which reduced the uncontrollable heat losses. The measurements proved that the specific heat jump in the critical point had a small finite value for the phenol-water system. Two USSR references (1953 and 1954). Graph; drawing.

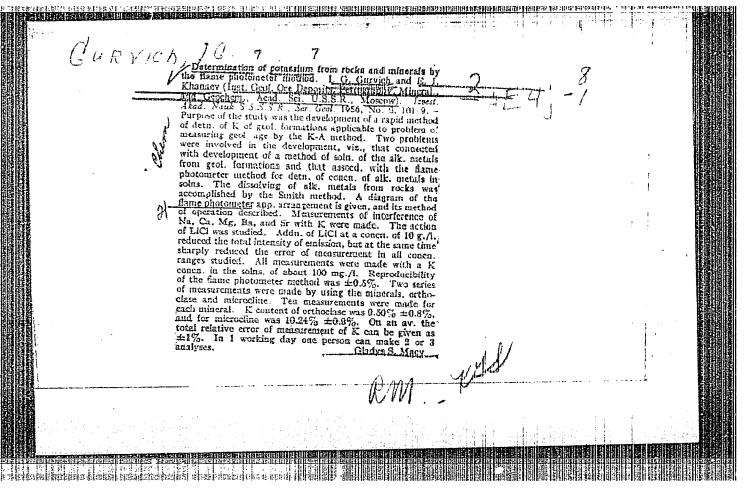
Institution

Academy of Sciences USSR. The Dagestan Branch

Submitted

July 30, 1954

CIA-RDP86-00513R000617510019-1" APPROVED FOR RELEASE: 08/10/2001



GURVICH, I.G.

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.

B-8

Physicochemical analysis. Phase transitions

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11168

Author : Amirkhanov Kh. I., Gurvich I.G., Matizen B.V.

Title : Concerning the Article by V.P. Skripov and V.K. Semenchenko

"Phase Transitions of Second Kind and Critical Phenomena. V. On Heat

Capacity Maximum in Critical Region of Stratification of Binary

Liquid Systems".

Orig Pub : Zh. fiz. khimii, 1956, 30, No 5, 1158-1161

Abstract : Discussion article. See RZhKhim, 1956, 18737

Card 1/1

CIA-RDP86-00513R000617510019-1 "APPROVED FOR RELEASE: 08/10/2001 TO THE PROPERTY OF THE PROPERT

Category : USSR/Atomic and Molecular Physics - Statistical Physics

D-3

Thermodynamics

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3459

Author

: Amirkhanov, Kh.I., Gurvich, I.G., Matizen, E.V. : Concerning the Article by V.P. Skripov and V.K. Semenchenko, "Phase Title

Transitions of the Second Kind and Critical Phenomena, V. On the Maximum Specific Heat in the Critical Region of Stratification of

Binary Liquid Systems"

Orig Pub : Zh. fiz. khimii, 1956, 30, No 5, 1158-1161

Abstract : See Ref. Zh. Fiz. 1956, 16356

: 1/1 Card

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

GURVICH, T 6 11-11-9/23 USSR/Photometry SUBJECT: Gurvich, I.G., and Khanayev, Yr. J. "Speed-Up Method for Determining Potassium in Minerals" (Uskoren-AUTHOR: nyy metod opredeleniya kaliya v mineralakh) TITLE: "Izvestiya Akademii Nau, SSSR", Seriya Geologicheskaya, 1957, PERIODICAL: # 4. pp 104-107 (USSR) The methods developed for determining potassium by Smith and Berzelius have certain disadvantages. The new photometric method is based on disintegration of minerals in molten calcium ABSTRACT: chloride, by heating the material to be tested with high frequency generators. After the material is ground to a fineness of 0.25-015 mm, 0.2 g are placed into graphite crucible, to which 1.2 g of calcium chloride is added. After dehydration, the crucible is lowered into a test tube, closed by a rubber plug, and heated by means of generators (of the type "NF3-30" LG2-30) to 1500-1700, at which temperature calcium chloride is liquefied and reacts violently with the tested material. By adding 100 cu cm distilled water and further dilution to a total volume of 500 cu cm, the grade of concentration is obtained by using the photometric method. Difficulties have been experienced card 1/2

> APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

盘-14-9/23

TITLE:

"Speed-Up Method for Determining Potassium in Minerals" (Uskoren-

ात्रा विकास स्थापन । स्थापन ।

nyy metod opredeleniya kaliya v mineralakh)

at high concentrations or calcium and potassium at 50 mg/liter.

One operator is capable of completing 20 tests in 2 days.

The article contains 2 tables, 1 figure and 1 diagram. The bibliography lists 5 references, of which 2 are Slavic (Russian).

ASSOCIATION: Institute of Geology of the Academy of Sciences, USSR

Institute of Geology of the Academy of Sciences, Gruzinian SSR Central Chemical Laboratory of the Geologic Institute for Metal Deposits, Petrography, Mineralogy and Geochemistry of the Academy

of Sciences USSR.

PRESENTED BY:

SUBMITTED: December 12, 1956

AVAILABLE: At the Library of Congress.

Card 2/2

Use of two-dimensional models in studying front waves from strate of varying thickness. Izv. AN SSSR. Ser. geofiz. no.11:1605-1619

N '63.

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.

HISSR/Avaphysias - Paissagen phis Prospecting GURVICH, I. I.

"Review of 'Toniructions for Defenic Prospecting," (I. Berzen and a. Yatinan'yaya, reviewers)

Tz Ak Nauk OSSR, Ser Geofiz, No 3, pp 271-274

Review the symposium "Instruktsiya po geofizicheskoy seysmorezvedke," a compilation of works contributed by A. S. Kumpan, V. N. Mitrofonov, N. A. Kobelavskeya, T. B. Sokolova, K. S. Andrayeva in participation with T. I. Gurvich, M. G. Skellt, and G. N. Shablinskiy, and edited by T. K. Kupolov-Yaropolk. Published by the State Geology Press. Foscow, 1952, 94 pp. 5,000 copies, price 2.92 cubles.

258790

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617510019-1"

GURVICH, I.I.; RYABINKIN, L.A., redaktor; BABINTSEV, N.I., redaktor;

WALEK, Z.N., tekhnicheskiy redaktor

[Seismic prospecting] Seismorazvedka. Moskva, Gos. nauchno-tekhn.

izd-vo lit-ry po geologii i okhrane nedr. 1954. 342 p. (MLRA 7:9)

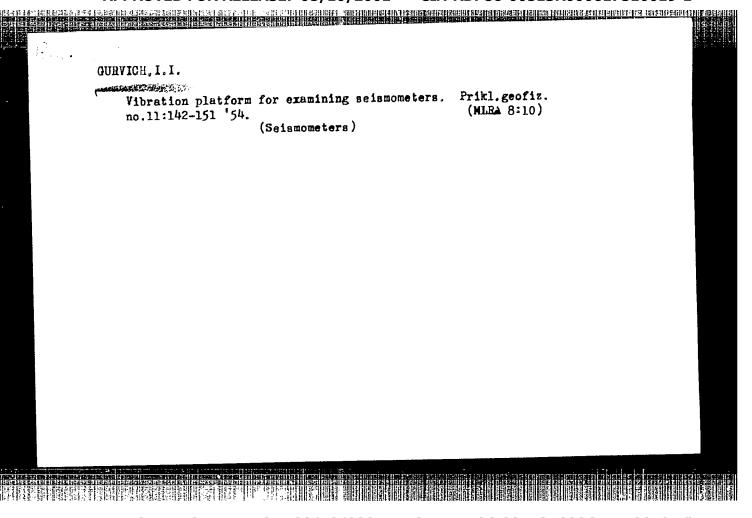
(Prospecting--Geophysical methods)

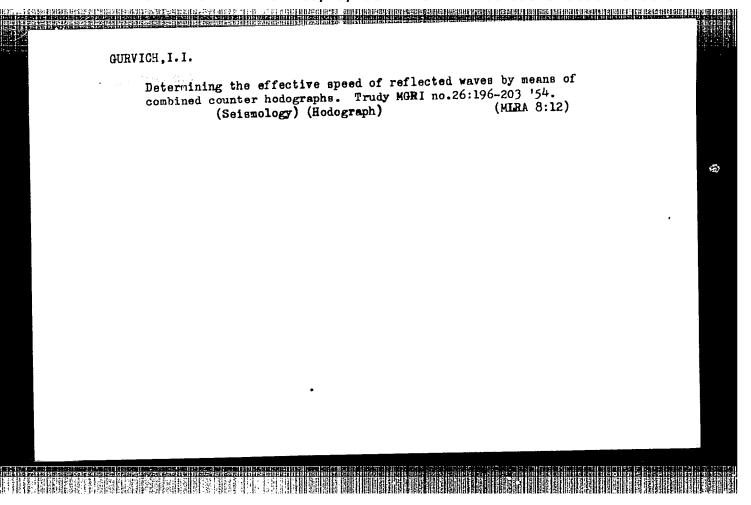
GURVICE, I. I., NOMOKANOV, V. P., and E ZANOV, I. H.

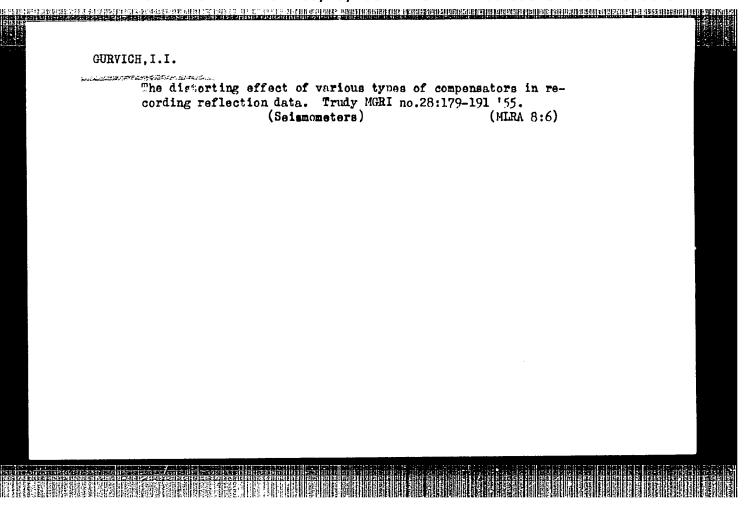
"High-Frequency Amplifier for Seismic Prospecting on the Basis of
the Amplifier at the Station EKnO-1," Rezvelo: 1 Otherna News, No. 2, pp

SO: W-31/29, 2 Sep 55

37-32, 1954



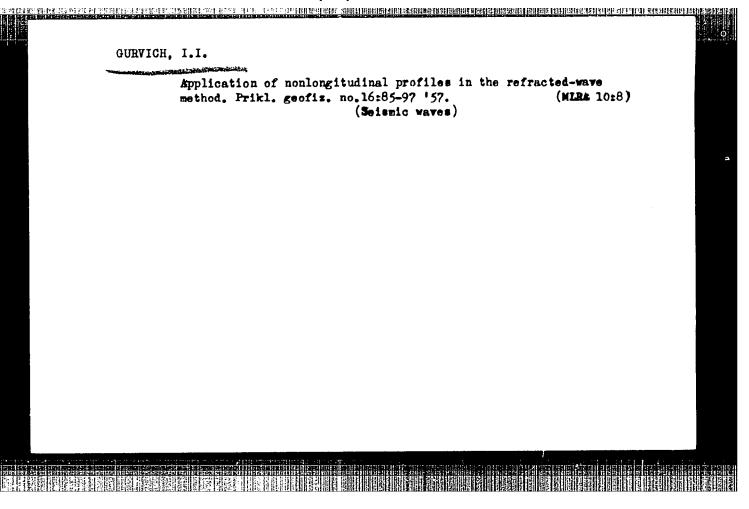




GURVICH, I.I.

Analysis of reflections form thin layers, Prikl.geofiz. no.15;3352 '56.
(MIRA 10:1)

(Seismology) (Prospecting-Geophysical methods)



GURVICH, I.I.

Frequency selection of seismic oscillations. Izv. vys. ucheb. zav.; geol. i razv. 1 no.8:110-125 Ag '58. (MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.

Kafedra razvedochnoy geofiziki. (Prospecting-Geophysical methods)

(Seismic waves)